

Title (en)
FREEZER AND HEAT SOURCE UNIT

Title (de)
GEFRIERSCHRANK UND WÄRMEQUEELLEINHEIT

Title (fr)
CONGÉLATEUR ET UNITÉ DE SOURCE DE CHALEUR

Publication
EP 4030120 A4 20230104 (EN)

Application
EP 20871390 A 20200626

Priority
• JP 2019179459 A 20190930
• JP 2020025225 W 20200626

Abstract (en)
[origin: EP4030120A1] A refrigerant circuit (100) has a liquid passage (P1) that allows a receiver (41) to communicate with a utilization heat exchanger (70), and a first expansion valve (VI) provided in the liquid passage (P1). The controller (200) opens the first expansion valve (VI) when the compression element (20) is in the stopped state and a pressure (RP) in the receiver (41) exceeds a predetermined first pressure (Pth1).

IPC 8 full level
F25B 43/00 (2006.01); **F25B 1/10** (2006.01); **F25B 13/00** (2006.01); **F25B 49/02** (2006.01)

CPC (source: CN EP US)
F25B 1/00 (2013.01 - CN); **F25B 1/10** (2013.01 - EP); **F25B 13/00** (2013.01 - EP US); **F25B 41/20** (2021.01 - US); **F25B 41/31** (2021.01 - US); **F25B 41/325** (2021.01 - CN); **F25B 41/40** (2021.01 - CN); **F25B 43/006** (2013.01 - CN); **F25B 49/02** (2013.01 - EP US); **F25B 2313/023** (2013.01 - EP); **F25B 2313/02732** (2013.01 - EP); **F25B 2313/0312** (2013.01 - EP); **F25B 2313/0314** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP); **F25B 2400/16** (2013.01 - EP); **F25B 2500/26** (2013.01 - EP); **F25B 2500/27** (2013.01 - US); **F25B 2600/2513** (2013.01 - CN EP US); **F25B 2600/2525** (2013.01 - US); **F25B 2700/172** (2013.01 - EP); **F25B 2700/1931** (2013.01 - EP); **F25B 2700/1933** (2013.01 - EP); **F25B 2700/2104** (2013.01 - EP); **F25B 2700/21151** (2013.01 - EP); **F25B 2700/21152** (2013.01 - EP)

Citation (search report)
• [I] WO 2007083794 A1 20070726 - SANYO ELECTRIC CO [JP], et al
• [A] JP 2017129351 A 20170727 - SHARP KK
• [A] EP 1143209 A1 20011010 - DAIKIN IND LTD [JP]
• See also references of WO 2021065113A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
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